

Abstract of the Disclosure

A lithium secondary battery includes an electrode unit produced by winding or laminating a positive electrode and a negative electrode via a separator, and a non-aqueous electrolytic solution containing a lithium compound as an electrolyte. The cumulative concentration of water (H_2O) released from both of the positive electrode and the negative electrode is suppressed to 5,000 ppm or lower in relation to the weight of the electrode unit, exclusive of current 5 collectors, in the case where both electrode plates are heated at 25 to 200°C and/or 1,500 ppm or lower in the case where both electrode plates are heated at 200 to 300°C. The lithium secondary battery can have high charging and discharging efficiency, excellent cycle property and 10 reliability by suppressing deterioration of battery properties.

15